

SEQUENCE LISTING

<110> Roche Diagnostics GmbH

<120> Expression of alkaline phosphatase in yeast

<130> 5387/00/

<140>

<141>

<160> 38

<170> PatentIn Ver. 2.1

<210> 1

<211> 1476

<212> DNA

<213> Bovine

<400> 1

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tacctgtgtg gggtaaggg caactacaga accatcgggt taagtgcagc cgcccgctac 360
aatcagtgca acacgacacg tgggaatgag gtcacgtctg tgatcaaccg ggccaagaaa 420
gcagggaagg ccgtgggagt ggtgaccacc accagggtgc agcatgcctc cccagccggg 480
gcctacgcgc acacggtgaa ccgaaactgg tactcagacg ccgacctgcc tgctgatgca 540
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<210> 2

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

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<210> 3
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 3
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<210> 4
 <211> 487
 <212> PRT
 <213> Bovine

<400> 4
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 Ala Lys Asn Val Ile Leu Phe Leu Gly Asp Gly Met Gly Val Pro Thr
 35 40 45
 Val Thr Ala Thr Arg Ile Leu Lys Gly Gln Met Asn Gly Lys Leu Gly
 50 55 60
 Pro Glu Thr Pro Leu Ala Met Asp Gln Phe Pro Tyr Val Ala Leu Ser
 65 70 75 80
 Lys Thr Tyr Asn Val Asp Arg Gln Val Pro Asp Ser Ala Gly Thr Ala
 85 90 95
 Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn Tyr Arg Thr Ile Gly Val
 100 105 110
 Ser Ala Ala Ala Arg Tyr Asn Gln Cys Asn Thr Thr Arg Gly Asn Glu
 115 120 125
 Val Thr Ser Val Ile Asn Arg Ala Lys Lys Ala Gly Lys Ala Val Gly
 130 135 140
 Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Ala Tyr
 145 150 155 160
 Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Leu Pro Ala
 165 170 175
 Asp Ala Gln Lys Asn Gly Cys Gln Asp Ile Ala Ala Gln Leu Val Tyr
 180 185 190
 Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Met Tyr Met Phe
 195 200 205
 Pro Glu Gly Thr Pro Asp Pro Glu Tyr Pro Asp Asp Ala Ser Val Asn
 210 215 220
 Gly Val Arg Lys Asp Lys Gln Asn Leu Val Gln Glu Trp Gln Ala Lys
 225 230 235 240

His Gln Gly Ala Gln Tyr Val Trp Asn Arg Thr Ala Leu Leu Gln Ala
 245 250 255
 Ala Asp Asp Ser Ser Val Thr His Leu Met Gly Leu Phe Glu Pro Ala
 260 265 270
 Asp Met Lys Tyr Asn Val Gln Gln Asp His Thr Lys Asp Pro Thr Leu
 275 280 285
 Ala Glu Met Thr Glu Ala Ala Leu Gln Val Leu Ser Arg Asn Pro Arg
 290 295 300
 Gly Phe Tyr Leu Phe Val Glu Gly Gly Arg Ile Asp His Gly His His
 305 310 315 320
 Asp Gly Lys Ala Tyr Met Ala Leu Thr Glu Ala Ile Met Phe Asp Asn
 325 330 335
 Ala Ile Ala Lys Ala Asn Glu Leu Thr Ser Glu Leu Asp Thr Leu Ile
 340 345 350
 Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly Gly Tyr Thr
 355 360 365
 Leu Arg Gly Thr Ser Ile Phe Gly Leu Ala Pro Gly Lys Ala Leu Asp
 370 375 380
 Ser Lys Ser Tyr Thr Ser Ile Leu Tyr Gly Asn Gly Pro Gly Tyr Ala
 385 390 395 400
 Leu Gly Gly Gly Ser Arg Pro Asp Val Asn Gly Ser Thr Ser Glu Glu
 405 410 415
 Pro Ser Tyr Arg Gln Gln Ala Ala Val Pro Leu Ala Ser Glu Thr His
 420 425 430
 Gly Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala His Leu
 435 440 445
 Val His Gly Val Gln Glu Glu Thr Phe Val Ala His Ile Met Ala Phe
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<210> 5

<211> 1476

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 5

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atgaatggta agttgggtcc agaaactcca ttggctatgg atcaatttcc atacgttgct 240
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gctggtaagg ctgttggtgt tgttactact actagagttc aacatgcttc tccagctggt 480
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caaaagaatg gttgtcaaga tattgctgct caattgggtt acaatatgga tattgatgtt 600
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gtttttgcta gaggtccaca agctcatttg gttcatggtg ttcaagaaga aacttttgtt 1380
gctcatatta tggcttttgc tggttggtgt gaaccataca ctgattgtaa tttgccagct 1440
ccagctactg ctactagtat tccagattaa ggtacc 1476

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<210> 6

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 6

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gcggaattc ttgattccag ctgaagaaga aaatccagct ttttgaata gacaagctgc 60
tcaagctttg gatgttgc 78

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<210> 7

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 7

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ccaaaaacaa aataacattc ttagcagcag tttgaattgg ttgcaacttc ttagcaacat 60
ccaaagcttg 70

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<210> 8

<211> 69

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Artificial

<400> 8

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gaatgttatt ttgtttttgg gtgatggtat ggggtgtcca actgttactg ctactagaat 60

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tttgaaggg

69

<210> 9

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 9

ggaaattgat ccatagccaa tggagtttct ggacccaact taccattcat ttgacccttc 60
aaaattctag 70

<210> 10

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 10

gctatggatc aatttccata cggtgctttg tctaagactt acaatgttga tagacaagtt 60
ccagattctg c 71

<210> 11

<211> 71

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Artificial

<400> 11

ccaatagttc tgtaattacc cttacacca cacaagtaag cagtagcagt accagcagaa 60
tctggaactt g 71

<210> 12

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 12

gtaattacag aactattggt gtttctgctg ctgctagata caatcaatgt aatactacta 60
gaggtaatga ag 72

<210> 13

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 13
 agtaacaaca ccaacagcct taccagcctt cttagctcta ttaataacag aagtaacttc 60
 attacctcta gtag 74

<210> 14
 <211> 74
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 14
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 catactgtta atag 74

<210> 15
 <211> 68
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 15
 caaccattct tttagagcatc agctggcaaa tcagcatcag agtaccaatt tctattaaca 60
 gtatgagc 68

<210> 16
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 16
 gatgctcaaa agaatgggtg tcaagatatt gctgctcaat tggtttaca tatgg 55

<210> 17
 <211> 72
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 17
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 accaattgag ca 72

<210> 18
 <211> 71
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 18
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tgttagaaag g

71

<210> 19

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 19

catattgagc accttgatgc ttagcttgcc attcttgaac caaatTTTgc ttatcctttc 60
taacaccatt aac 73

<210> 20

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 20

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tagtggttact c 71

<210> 21

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 21

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<210> 22

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 22

gaaccagctg atatgaagta taatgttcaa caagatcata ctaaggatcc aactttggc 59

<210> 23

<211> 67

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial

<400> 23

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tccttag 67

<210> 24
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 24
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 tcatgatgg 69

<210> 25
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 25
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 catgatgacc atg 73

<210> 26
 <211> 74
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 26
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 actgctgatc atag 74

<210> 27
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 27
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 gatcagcagt aac 73

<210> 28
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 28
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 tgtatggtaa tgg 73

<210> 29
 <211> 76
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 29
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 ccatacaaaa tagaag 76

<210> 30
 <211> 77
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 30
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 gctagtgaag ctcatgg 77

<210> 31
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 31
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 gagtttcact agc 73

<210> 32
 <211> 74
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 32
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 ggttgtgttg aacc 74

<210> 33
 <211> 82
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 33
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 tgtatggttc aacacaacca gc 82

<210> 34
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 34
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<210> 35
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial

<400> 35
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<210> 36
 <211> 10
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 36
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 1 5 10

<210> 37
 <211> 4
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 37
 Leu Ile Pro Ala
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<210> 38
 <211> 6
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 38
 Glu Ala Glu Ala Glu Phe
 1 5